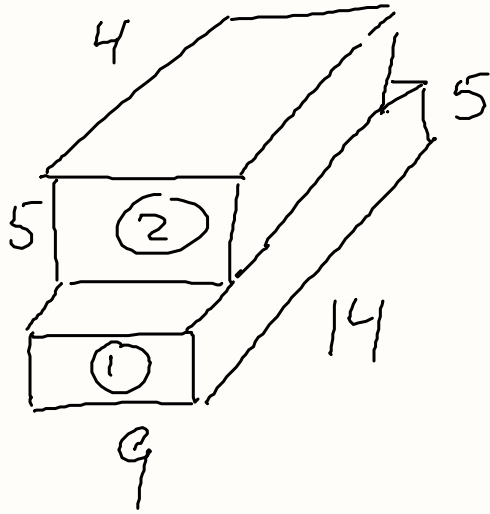


①

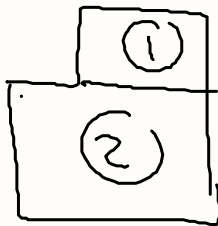


$$V_1 = 9 \cdot 14 \cdot 5 = 630 \text{ m}^3$$

$$V_2 = 4 \cdot 5 \cdot 9 = 180 \text{ m}^3$$

$$V = V_1 + V_2 = 810 \text{ m}^3$$

②



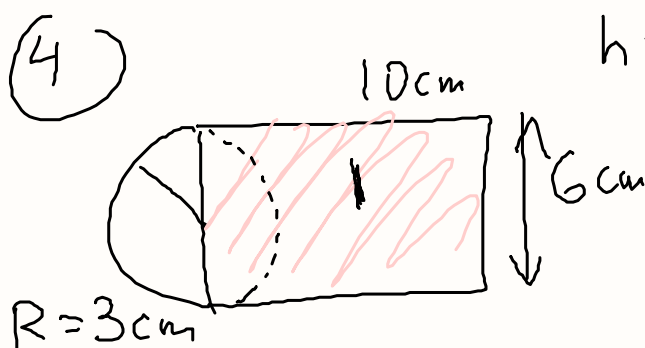
$$V_1 = 2 \cdot 3 \cdot 5 = 30 \text{ m}^3$$

$$V_2 = 6 \cdot 4 \cdot 5 = 120 \text{ m}^3$$

$$V = V_1 + V_2 = 150 \text{ m}^3$$

$$(3) V_{\text{cyl}} = \underline{\underline{\pi R^2 \cdot h}} = \pi \cdot 2^2 \cdot 11 = 44\pi \text{ cm}^3$$

(4)



$$h = 6 \quad V_1 = 6 \cdot 10 \cdot 6 = 360 \text{ cm}^3$$

$$V_{\text{cyl}} = \pi R^2 h = \pi \cdot 3^2 \cdot 6 = 54\pi$$

$$V_{\frac{1}{2} \text{ cyl.}} = \frac{54\pi}{2} = 27\pi \text{ cm}^3$$

$$V = V_1 + V_{\frac{1}{2} \text{ cyl.}} = (360 + 27\pi) \text{ cm}^3$$

(5)

$$V = \pi R^2 \cdot h = 3.14 \cdot 3.2^2 \cdot 7.2 = 231.51 \text{ m}^3$$

(6)

$$V = \frac{1}{3} \pi R^2 \cdot H = \frac{1}{3} \cdot 3.14 (16.7^2) 50 = 14595$$

$$V_{\text{top}} = \frac{1}{3} \pi \cdot r^2 h = \frac{1}{3} \cdot 3.14 (8.35)^2 \cdot 25 = 1824.4$$

$$V - V_{\text{top}} = 14595 - 1824 = 12771 \text{ m}^3$$

$$\textcircled{7} \quad V = \frac{1}{3} a \cdot b \cdot h = \frac{1}{3} \cdot 12 \cdot 12 \cdot 11 = 528 \text{ m}^3$$

$$\textcircled{8} \quad V = 0.13 \cdot 12 \cdot 17 = 26.52 \text{ m}^3$$

$$\textcircled{9} \quad V = 6.8 \cdot 0.58 = 27.84 \text{ cm}^3$$

$$d = \frac{w}{V} = \frac{532}{27.84} = 19.1 \frac{\text{g}}{\text{cm}^3}$$

URANIUM

$$(10) \quad R = \frac{5.4}{2} = 2.7$$

$$V = \frac{4}{3} \pi R^3 = \frac{4}{3} \cdot 3.14 \cdot 2.7^3 =$$
$$= 82.4 \text{ cm}^3$$

$$V_{1.5} = 1.5 \cdot 82.4 = 123.6 \text{ cm}^3$$

$$V_{\text{cone}} = \frac{1}{3} \pi R^2 \cdot h =$$
$$= \frac{1}{3} \cdot 3.14 \cdot 2.7^2 \cdot 12.9 = 98.4 \text{ cm}^3$$
$$V = V_{1.5} + V_{\text{cone}} = \underline{222 \text{ cm}^3}$$